

In [21]: `#day5`

In [20]: `"""Consider warehouse inventory(dataStorage) system.
1.Create an array consisting of product code and corresponding quantity shape
2. Determine the dimension of the inventory array
3. Give product code search through the array to find the quantity of product
4. Split the array to 2 arrays
5.retrieve the quantity using array index
6. Check the shape of inventory array
7. reshape the inventory array into 2D array
8. Create a copy of inventory array
9. Add new items to the inventory """`

Out[20]: `'Consider warehouse inventory(dataStorage) system. \n1.Create an array consisting of product code and corresponding quantity shape\n2. Determine the dimension of the inventory array\n3. Give product code search through the array to find the quantity of product\n4. Split the array to 2 arrays \n5.retrieve the quantity using array index \n6. Check the shape of inventory array\n7. reshape the inventory array into 2D array\n8. Create a copy of inventory array\n9. Add new items to the inventory '`

In [2]: `myInventory = [{"product_code":"S2101","Qunatity":"02"},
{"product_code":"S2102","Qunatity":"03"},
{"product_code":"S2103","Qunatity":"09"},
{"product_code":"S2104","Qunatity":"04"},
{"product_code":"S2105","Qunatity":"05"},
{"product_code":"S2106","Qunatity":"06"},
{"product_code":"S2107","Qunatity":"07"},
{"product_code":"S2108","Qunatity":"08"}]`

In [5]: `Dimension = len(myInventory)
print(Dimension)`

8

In [7]: `def findQuantity(product_code):
 for item in myInventory:
 if item["product_code"]==product_code:
 return item["Qunatity"]
 return None
x = findQuantity("S2106")
print(x)`

06

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In [8]: product_codes = [item["product_code"] for item in myInventory]
        Qunatities = [item["Qunatity"] for item in myInventory]
        print(product_codes)
        print(Qunatities)

['S2101', 'S2102', 'S2103', 'S2104', 'S2105', 'S2106', 'S2107', 'S2108']
['02', '03', '09', '04', '05', '06', '07', '08']
```

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In [9]: index = 7
        quantity_at_index = myInventory[index]["Qunatity"]
        print(quantity_at_index)
```

08

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In [10]: shape = len(myInventory),len( myInventory[2])
         print(shape)
```

(8, 2)

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In [18]: myInventory_copy = myInventory.copy()
         print(myInventory_copy)
```

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[{'product_code': 'S2101', 'Qunatity': '02'}, {'product_code': 'S2102', 'Qunatity': '03'}, {'product_code': 'S2103', 'Qunatity': '09'}, {'product_code': 'S2104', 'Qunatity': '04'}, {'product_code': 'S2105', 'Qunatity': '05'}, {'product_code': 'S2106', 'Qunatity': '06'}, {'product_code': 'S2107', 'Qunatity': '07'}, {'product_code': 'S2108', 'Qunatity': '08'}, {'product_code': 'S2105', 'Qunatity': '05'}]
```

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In [13]: newitem = {"product_code": "S2105", "Qunatity": "05"}
         myInventory.append(newitem)
         print(myInventory)
```

```
[{'product_code': 'S2101', 'Qunatity': '02'}, {'product_code': 'S2102', 'Qunatity': '03'}, {'product_code': 'S2103', 'Qunatity': '09'}, {'product_code': 'S2104', 'Qunatity': '04'}, {'product_code': 'S2105', 'Qunatity': '05'}, {'product_code': 'S2106', 'Qunatity': '06'}, {'product_code': 'S2107', 'Qunatity': '07'}, {'product_code': 'S2108', 'Qunatity': '08'}, {'product_code': 'S2105', 'Qunatity': '05'}]
```

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In [ ]:
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